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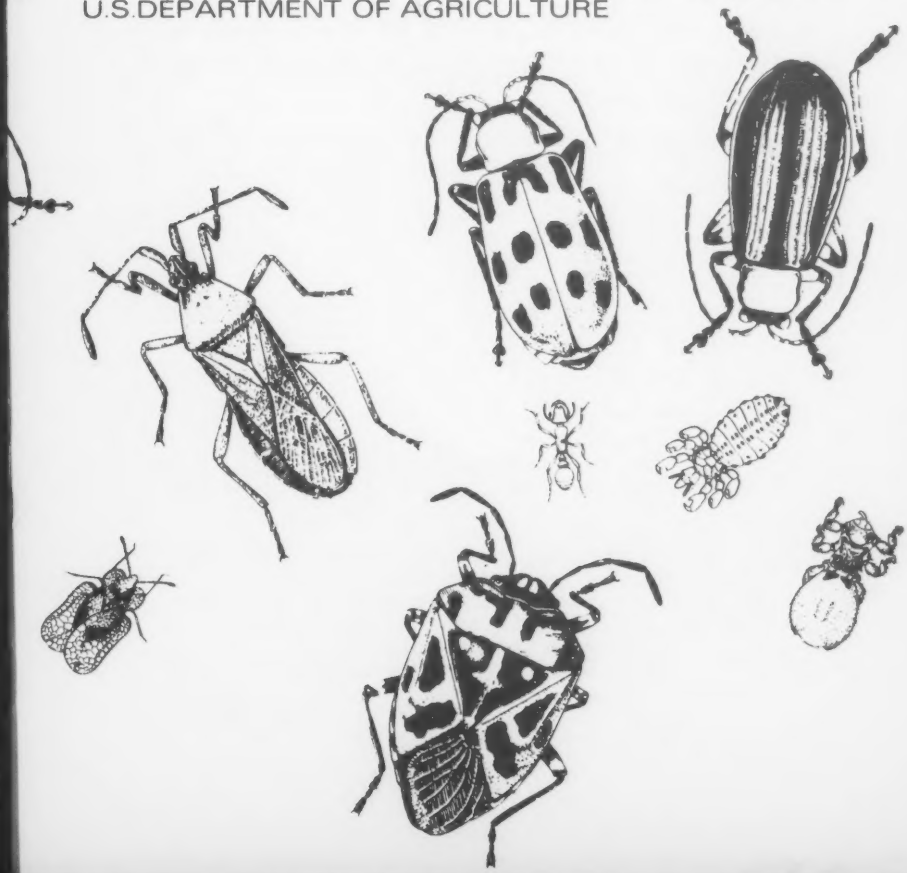

ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
NEW PEST DETECTION AND SURVEY STAFF

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

LESSER CORNSTALK BORER damage extensive to peanuts in parts of Texas. (p. 820).

BOLL WEEVIL damage continued high in parts of Texas and Oklahoma. (p. 820).

More MEDITERRANEAN FRUIT FLY larvae found in California. (p. 822).

Detection

New State Records include a PIT SCALE in ALABAMA and an ARGASID TICK in Oregon. (p. 821).

For new county records, see page 822.

Reports in this issue are for the week ending October 10 unless otherwise indicated.

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WEATHER OF THE WEEK ENDING OCTOBER 12

Reprinted from Weekly Weather and Crop Bulletin supplied by National Weather Service, NOAA.

HIGHLIGHTS: As warm air and sunshine settled over the Nation's midsection, temperatures in parts of the Plains States shot up to record high levels under clear skies. Precipitation spread across the eastern third of the United States and made headlines in the Pacific Northwest when the first major storm of the season hit the northern Rockies.

TEMPERATURE AND PRECIPITATION: The weather activity got off to a slow start, but picked up as the week progressed. Monday opened to sunny skies and pleasant temperatures across much of the Nation. The weekend precipitation withdrew from the Southeast, except for a few spots in Florida, Alabama, and northern Mississippi, where light showers lingered. In the afternoon, showers and occasional thundershowers advanced slowly eastward through the northern Rockies and parts of Nevada. Isolated activity occurred in central California into southern Oregon. In the East, a group of showers moved lazily through the New England States. A survey of daytime temperatures showed record high levels along the lee of the Rockies from Colorado (Denver 87) to Wyoming (Casper 84) and east into Nebraska (Scottsbluff 91). Readings ranged from the 40's in the Upper Great Lakes and northern Rockies to the 100's in the Desert Southwest. The first major storm of the season swept eastward through the Intermountain regions on Tuesday trailing high winds, snow, and thunderstorms. Winds gusted to 65 m.p.h. in parts of California, Arizona, and Utah. Meantime, a frontal system gave rise to a large area of rain as it edged northward in the Southeast. Midday showers and thundershowers were recorded from southern Kentucky to the gulf coast and southeastward over Georgia and Florida. Tuesday night, cold air behind a low pressure center over Wyoming blanketed a large part of the western United States. The first widespread snow of the season capped the northern Rockies. A surge of cold air tailing the storm held Wednesday morning temperatures ahead of the front, though warmed into the 60's aided by clear skies in the central and southern portions of the country. Readings in the 70's and 80's still hinted at summer in

Weather of the week continued on page 824.

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

BEET LEAFHOPPER (Circulifer tenellus) - CALIFORNIA - Most advanced in higher elevations of Carriso Plains and Cuyama Valley, San Luis Obispo County. Treatments planned to begin in this area, move to Bakersfield, Kern County, and progress north to Coalinga, Fresno County. Nymphs 60 percent of populations in Coalinga area. (Cal. Coop. Rpt.).

CORN EARWORM (Heliothis zea) - TENNESSEE - Damaged 25 acres of Morgan County soybeans, no treatments applied. (Jansch). ARKANSAS - Larvae 8-10 per 100 sweeps of Washington County alfalfa. (Boyer).

GREENBUG (Schizaphis graminum) - OKLAHOMA - Very light in scattered wheatfields in southwest counties. (Okla. Coop. Sur.). NEW MEXICO - Ranged 20-30 per linear foot on Chaves County barley. (N.M. Coop. Rpt.). OREGON - Light in irrigated wheatfields near Hermiston, Umatilla County. Alates with 4-6 nymphs noted on 3 to 4-leaf stage in dryland fields; 100+ per dead leaf. (Goeden).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OKLAHOMA - Moderate; increasing on alfalfa in Caddo and Washita Counties. (Okla. Coop. Sur.). NORTH DAKOTA - Ranged 30-120 (averaged 70) per 100 sweeps in Rolette County alfalfa October 7, 1975. Collected and determined by C.G. Scholl. This is a new county record. (Scholl).

CORN, SORGHUM, SUGARCANE

EUROPEAN CORN BORER (Ostrinia nubilalis) - NORTH CAROLINA - Lodging very heavy, more than 50 percent in some cornfields across State, especially in Hoke and Scotland County areas. Lodging about 5 percent in 25 fields in Alamance, Durham, and Granville Counties. Lodging will increase as stalk rot apparent in all fields checked. (Hunt).

SMALL GRAINS

FALL ARMYWORM (Spodoptera frugiperda) - OKLAHOMA - Light to moderate in scattered fields of young wheat in southwest counties and heavy (2-3 per linear foot) in isolated spots. (Okla. Coop. Sur.). NORTH CAROLINA - Larvae continued to damage rye and other winter forage and cover crops. Six damage reports received from eastern Piedmont and Coastal Plain. Heavily infested 40 acres of Montgomery County rye. (Reese et al.).

TURF, PASTURES, RANGELAND

SOUTHERN CHINCH BUG (Blissus insularis) - CALIFORNIA - Infested St. Augustine grass at Redwood City, San Mateo County; range increasing. (Cal. Coop. Rpt.).

FORAGE LEGUMES

FALL ARMYWORM (Spodoptera frugiperda) - MISSOURI - Light to moderate on 2 fall seeded east-central alfalfa fields. Small larvae 0-8 per 10 sweeps. Two acres defoliated in one field. (Munson).

WHITE PEACH SCALE (Pseudaulacaspis pentagona) - ALABAMA - Collected on Lespedeza cuneata (sericea) at Leesburg, Cherokee County, September 28, 1975, by C.H. Ray. Determined by M.L. Williams. This is a new county record. (McQueen).

SOYBEANS

MEXICAN BEAN BEETLE (Epilachna varivestis) - TENNESSEE - Damaged 1,000 acres of Bedford County soybeans; no treatments applied. (Fox).

BEAN LEAF BEETLE (Cerotoma trifurcata) - OKLAHOMA - Up to 10 per row foot of soybeans in Muskogee County and up to 2 per row foot in Wagoner County. (Okla. Coop. Sur.).

THREECORNERED ALFALFA HOPPER (Spissistilus festinus) - MISSISSIPPI - Adult averages per 25 sweeps of soybeans by county: Coahoma 6 in 100 acres, Jones 13 in 80 acres, Clarke 18.6 in 40 acres, Sunflower 11.75 in 200+ acres. (Robinson).

PEANUTS

LESSER CORNSTALK BORER (Elasmopalpus lignosellus) - TEXAS - Still heavy; pod damage extensive to 15 percent of late-planted dryland peanut fields in Comanche County. (Curtis).

REDNECKED PEANUTWORM (Stegasta bosqueella) - TEXAS - Moderate populations feeding in terminals of peanuts in Motley and Hall Counties. (Boring).

COTTON

BOLL WEEVIL (Anthonomus grandis) - TEXAS - Heavy in many Rolling Plains counties and in Nolan and Concho Counties. Light in Trans-Pecos area. Fall control program underway in Glasscock, Reagan, Upton, and Midland Counties. (Boring et al.). OKLAHOMA - Green boll damage up to 80 percent in untreated cotton in southwest counties; square and boll damage up to 100 percent in Washita and Caddo Counties. (Okla. Coop. Sur.).

SUGAR BEETS

ZEBRA CATERPILLAR (Ceramica picta) - IDAHO - Extensively damaged 12-acre sugar beet field at Parma, Canyon County. About 90 percent of plants damaged, 50 percent of total leaf surface consumed in entire field week of October 1. (Waters, Saunders).

BERTHA ARMYWORM (Mamestra configurata) - IDAHO - Full-grown larvae heavy in sugar beets week of September 30. Damage serious to some areas of field at Parma, Canyon County. (Saunders).

DECIDUOUS FRUITS AND NUTS

WALNUT CATERPILLAR (Datana integerrima) - OKLAHOMA - Damage to pecans significant in some Payne County areas. (Okla. Coop. Sur.).

HICKORY SHUCKWORM (Laspeyresia caryana) - OKLAHOMA - Heavy on pecans in Pontotoc County; light in Garvin County. (Okla. Coop. Sur.).

WALNUT HUSK FLY (Rhagoletis completa) - UTAH - Heavy on English walnuts at Bountiful, Davis County. (Burningham).

FOREST AND SHADE TREES

BALSAM TWIG APHID (Mindarus abietinus) - NEW HAMPSHIRE - Observed in twisted needles of balsam fir trees in Strafford County Christmas tree plantation. Overwintering eggs averaged 5 per bud. (Mason).

A PIT SCALE (Cerococcus koebelei) - ALABAMA - Taken on Acer rubrum (red maple) in Clay County April 20, 1975. Collected and determined by M.L. Williams. This is a new State record. (McQueen).

AN ARMORED SCALE (Diaspidiotus liquidambaris) - ALABAMA - Collected on Liquidambar styraciflua (sweetgum) at Leesburg, Cherokee County, September 28, 1975, by C.H. Ray. Determined by M.L. Williams. This is a new county record. (McQueen).

MAN AND ANIMALS

SCREWWORM (Cochliomyia hominivorax) - Total of 986 cases reported from continental U.S. during September 21-27 as follows: Oklahoma 1, Texas 920, New Mexico 25, Arizona 40. Total of 426 cases confirmed in portion of Barrier Zone in Republic of Mexico. Total of 289 cases reported in Mexico south of Barrier Zone. Number of sterile flies released this period totaled 158,745,200 as follows: Oklahoma 518,400; Texas 128,913,800, New Mexico 7,689,600; Arizona 21,623,000. Total of 6,900,000 sterile flies released within Barrier of Mexico. (Vet. Serv.).

HORN FLY (Haematobia irritans) - TEXAS - Light to moderate in Concho and Nolan Counties and the Rio Grande Valley area. Ranged 300-400 per head in Panhandle areas. (McWhorter et al.). OKLAHOMA - Averaged 200 per head on Payne County cattle. Moderate to heavy in Garvin County. (Okla. Coop. Sur.).

FACE FLY (Musca autumnalis) - KENTUCKY - Adults taken in pasture near cattle in Hardin County October 7, 1975. Collected and determined by D. Barnett; confirmed by F. Knapp. This is a new county record. (Barnett). NEW HAMPSHIRE - One per face on horses, 10 per face on beef cattle, near Durham, Strafford County. (Burger).

STABLE FLY (Stomoxys calcitrans) - NEW HAMPSHIRE - One per animal on herd of beef cattle near Durham, Strafford County, and 132 males per 50 meters of fence near herd. (Burger).

AN ARGASID TICK (Ornithodoros coriaceus) - OREGON - Six nymphs taken from carbon dioxide trap about 8 miles south of Pinehurst, Jackson County, September 3, 1975. This is a new State record. Two nymphs taken from carbon dioxide traps in or near deer and cattle bedding areas in nearby areas of Klamath County, about 20 miles southeast of Pinehurst, September 9, 1975. This is a new county record. Both collections and determinations by R.A. Gresbrink. (Gresbrink).

BLACK WIDOW SPIDER (Latrodectus mactans) - SOUTH CAROLINA - Taken from building in Berkeley County September 29, 1975, by J.E. Yonce. Determined by J.B. Kissam. This is a new county record. (McCaskill).

WESTERN BLACK WIDOW SPIDER (Latrodectus hesperus) - NEW MEXICO - Heavy at Las Cruces, Dona Ana County; many males noted. (N.M. Coop. Rpt.).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

GRASSHOPPERS - OKLAHOMA - Counts and damage heavy in margins of wheat in Roger Mills County. (Okla. Coop. Sur.). NORTH DAKOTA - Melanoplus sanguinipes, dominant species, 3-4 per square yard in Stark County winter wheat 15-20 feet inwards from field border, damage noted. Winter wheat in seedling stage. (Brandvik).

PINK BOLLWORM (Pectinophora gossypiella) - TEXAS - Light in El Paso, Pecos, Reeves, Glasscock, and Martin Counties. (Neeb).

RED IMPORTED FIRE ANT (Solenopsis invicta) - FLORIDA - About 40 workers collected from mound in nursery at Stuart, Martin County, by J.W. Thomas October 3, 1975. Determined by D.R. Smith. This is a new county record. (PPQ).

MEDITERRANEAN FRUIT FLY (Ceratitis capitata) - CALIFORNIA - Total finds to October 14 in State at Venice, Los Angeles County: 6 males and one female. Larvae found at 6 addresses. Area is residential and industrial, distant from commercial fruit production. (PPQ).

DETECTION

New State Records

AN ARGASID TICK (Ornithodoros coriaceus) - OREGON - Jackson County. (p. 821).

A PIT SCALE (Cerococcus koebelei) - ALABAMA - Clay County. (p. 821).

New County Records

AN ARGASID TICK (Ornithodoros coriaceus) OREGON - Klamath. (p. 821).

AN ARMORED SCALE (Diaspidiotus liquidambaris) ALABAMA - Cherokee (p. 821).

BLACK WIDOW SPIDER (Latrodectus mactans) SOUTH CAROLINA - Berkeley (p. 822).

FACE FLY (Musca autumnalis) KENTUCKY - Hardin (p. 821).

RED IMPORTED FIRE ANT (Solenopsis invicta) FLORIDA - Martin (p. 822).

SPOTTED ALFALFA APHID (Therioaphis maculata) NORTH DAKOTA - Rolette (p. 819).

WHITE PEACH SCALE (Pseudaulacaspis pentagona) ALABAMA - Cherokee (p. 820).

General Vegetables - CABBAGE WEBWORM (Hellula rogatalis) infestations light with damage in 0.25 acre of mustard cabbage at Pearl City, Oahu. Less than 5 percent of plants infested. Heavy in backyard garden at Hanapepe, Kauai. At least 50 percent of cabbage infested and damaged. BROAD MITE (Polyphagotarsonemus latus) infestation and damage heavy in backyard bell pepper planting at Kalaheo, Kauai. All terminals severely damaged. All stages of mites present. Infestations and damage light on some eggplant plants at Koko Head, Oahu. DIAMONDBACK MOTH (Plutella xylostella) damage and infestations heavy (20+ larvae per plant) in 0.50 acre of untreated mustard cabbage at Waianae, Oahu. Larvae light (2-3 per plant) in 1.5 acres of same crop nearby. LEAFMINER FLIES (Liriomyza spp.) light to moderate on Oahu. Light in 0.25 acre each of eggplant, squash, and mustard cabbage. Heavy in 0.20 acre of green onions at Koko Head. At least 25 percent of leaves of nearly all plants infested. GREENHOUSE WHITEFLY (Trialeurodes vaporariorum) heavy in backyard planting of Momordica charantia (bittermelon) at Pearl City, Oahu. Young stages covered undersides of nearly all mature leaves. (Mau).

LIGHT TRAP COLLECTIONS

CALIFORNIA - Bellota, 10/2, temp. 56-83 F., BL, ARMYWORM (Pseudaletia unipuncta) 60, BEET ARMYWORM (Spodoptera exigua) 930, BLACK CUTWORM (Agrotis ipsilon) 3, BOLLWORM (Heliothis zea) 1, CABBAGE LOOPER (Trichoplusia ni) 6, VARIEGATED CUTWORM (Peridroma saucia) 4. Clements, 9/29, temp. 55-89 F., BL, armyworm 41, beet armyworm 255, black cutworm 1, GRANULATE CUTWORM (Feltia subterranea) 16, variegated cutworm 1. FLORIDA - Gainesville, 10 3-7, BL, armyworm 21, beet armyworm 7, black cutworm 4, bollworm 4, FALL ARMYWORM (S. frugiperda) 19, granulate cutworm 9, TOBACCO BUDWORM (H. virescens) 4, variegated cutworm 2, YELLOWSTRIPED ARMYWORM (S. ornithogalli) 4. KENTUCKY (County) - Fayette, 10 22-23, BL, armyworm 1, yellowstriped armyworm 1. MISSISSIPPI - Stoneville, 10 3-9, temp. 39-82 F., precip. trace, 2BL, armyworm 1, beet armyworm 334, black cutworm 11, bollworm 2,763, cabbage looper 437, fall armyworm 166, granulate cutworm 13, tobacco budworm 470, variegated cutworm 2, yellowstriped armyworm 50. NORTH CAROLINA - Halifax, 10 3, 6, 8, BL, bollworm 291. Scotland Neck, 10/3, 6, 8, BL, bollworm 168. PENNSYLVANIA (Districts) - North West, 9/28-10 7, BL, armyworm 2, bollworm 5, EUROPEAN CORN BORER (Ostrinia nubilalis) 1, variegated cutworm 1. South East, 9/28-10 7, armyworm 2, yellowstriped armyworm 1. WISCONSIN - Hancock, 10 1-8, BL, armyworm 4, black cutworm 3, bollworm 2, variegated cutworm 4.

Weather of the week continued from page 818.

the extreme Southeast. In Pennsylvania, New York, and New England the mercury halted in the 30's. In the West, high winds whipped cold air through the eastern slopes of the central Rockies into the High Plains. Though winds diminished at the end of the day, winter weather was in the northern Rockies to stay. As more cold air slid into the High Plains, some temperatures dropped as much as 30 degrees in a day's time. At 3 p.m. Wednesday, Casper, Wyoming, read 42 degrees, a big drop from 77 degrees at the same time Tuesday. Wet weather hung over much of the Nation Thursday as precipitation in a variety of forms spread from the northern Plains to the Atlantic. Snow descended on parts of North Dakota where Minot collected up to 2 inches before sunrise. Rains covered a large area from the upper Great Lakes into the Ohio Valley and the middle Atlantic coast.

Temperatures in the 50's and 60's dominated much of the Nation though the northern portions of the Plains and the Rockies remained in the 30's and 40's. The gulf coast areas basked in sunshine and warm air. Other afternoon readings put 90's over parts of Texas and Florida, 80's in lower Ohio Valley and 70's in southern Michigan. A new cold front on Thursday delivered rain and strong winds to the Pacific Northwest and the northern half of California where gusts in the Shasta Valley topped 65 m.p.h. Meanwhile, most of the Nation's sunshine favored areas from Arizona and New Mexico across Texas and the lower half of the Mississippi Valley into the southeast Atlantic Coast States. Except for a warming trend in the Plains States, the pattern of weather changed little as the weekend approached. Warm air and sunshine in the Nation's midsection on Friday pushed the thermometer into the 90's from Texas and Louisiana into the southern portions of Oklahoma and Arkansas. Shreveport, Louisiana, scored a record 93 degrees. In the Pacific northwest, cloudy, wet weather persisted from central California north into Washington State. As warm air spread north and east through the central Plains on Saturday, early afternoon temperatures soared into the 90's as far north as Kansas and into the 80's in Tennessee. Garden City, Kansas, came out on top in the Nation with a high of 97 degrees. Cooler readings in the low 40's and 50's put the Rockies, the northern Plains, and northern Maine at the low end of the list. Sunday brought more record highs to the Midwest. Wichita, Kansas--91, Omaha, Nebraska--93, and Sioux City, Iowa--92. All broke previous records set in 1899. In the northern Rockies however, it was another cool day. The 40's prevailed in Idaho, Nevada, Utah, and Montana. Cutbank, Montana, sank into the 30's. The 50's settled over the Pacific Northwest.

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